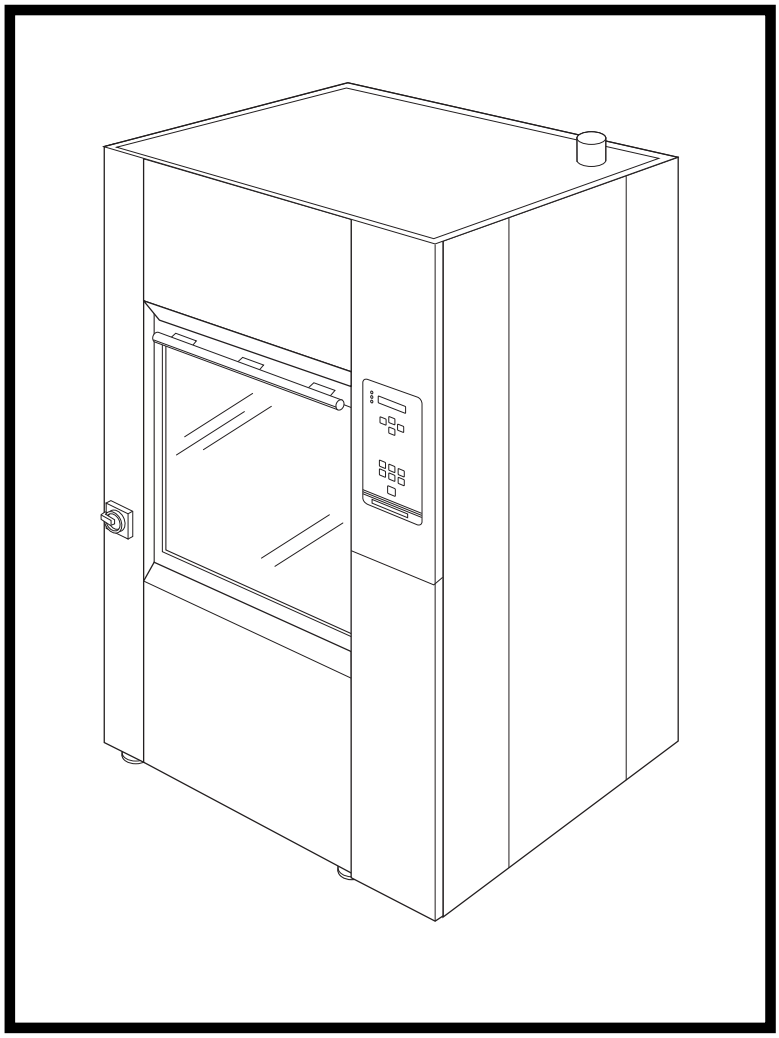
OPERATING INSTRUCTIONS



Decomat 8666

Serial no. 81511-
4996863-04

GETINGE DISINFECTION

CE 0301

Produced: 1999

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Safety rules

This machine is designed with a number of integrated safety devices. To avoid personal injury it is essential that the safety devices are not bypassed or in any other way put out of action.

General safety rules

- The machine should be connected according to the instructions.
- The machine may not by used by juveniles.
- Installation work and servicing should be carried out by staff trained to use this machine.
- The door switch on the machine may not be bypassed under any circumstances.
- Leakage in the system, eg, due to worn lid gasket, must be repaired immediately.
- Personnel concerned must study valid handbooks and service manuals prior to any repairs or service work.
- All plug-in leads must be unplugged from all of the circuit boards of the control system before any welding on or close to the dishwasher is started.
- The machine may not be sprayed with water.
- Caution must be observed when using corrosive detergents.
- Safety precautions must be observed when using hot water or steam.

Power cut-off device

The machine can be provided with a separate main switch in the power supply line, easily accessible on the wall.

Caution symbols

This manual contains certain warnings, instructions and advice of such importance that they are particularly emphasized. The configuration and use of the appertaining symbols are as follows:

This symbol indicates a warning in the text. It gives warning of dangers which could lead to minor or major injury to the person and even to a fatality.

It is also used in warnings to avoid damage to the machine.

Decomat 8666

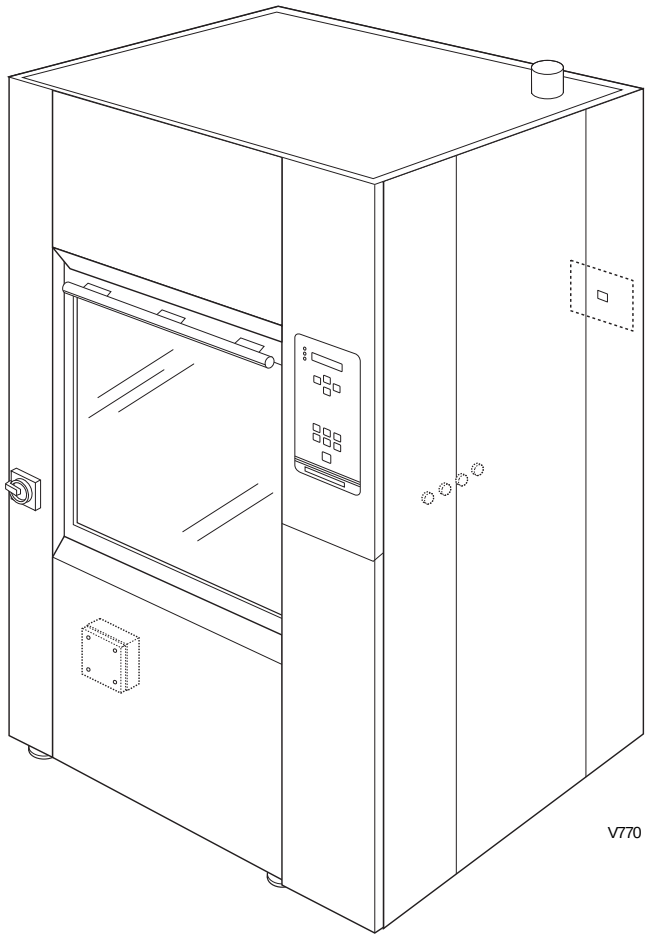
The Decomat 8666 is a fully automatic washer disinfector for the cleaning and disinfecting of contaminated dishware in hospitals, laboratories and the pharmaceutical industry.

The machine is provided with three spray arms and can be equipped with a variety of accessories for different cleaning requirements. These accessories are presented in a separate accessories catalogue.

Several options are available with regard to installation to suit the range of use intended:

- Electric or steam heating.
- Connection of distilled or deionized water.
- With or without built-in drying system.
- Single or double doors.
- Extra dispenser pumps, eg, to permit chemical disinfection of heat sensitive goods.
- Loader/Unloader
- Automatic program select (set by basket)
- Audio-signal for end of cycle, error code, etc.

Decomat 8666 is tested and approved in compliance with the recommendations of SPRI (Swedish Planning and Rationalization Institute of the Health and Social Services) and BGA.



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Programming device

The machine is fitted with an electronic programmable device which can contain a maximum of 60 different programs. Six of these programs can be chosen using the program selection buttons.

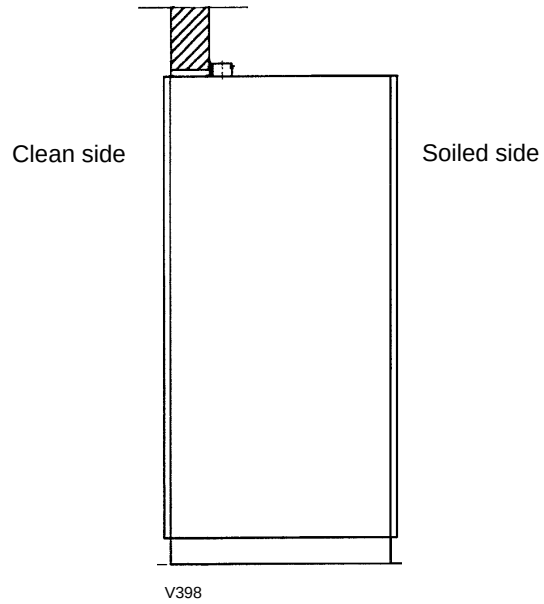
A number of standard programs are included in the programming device on delivery (see section, Standard programs). These programs can be modified to suit individual customer requirements. Furthermore, completely new individual programs can be programmed directly into the machine from the machine control panel. If desired, the whole or parts of a standard program can be used as the basis for programming.

Programming may only be carried out by authorized personnel.

Door function

Decomat A 8666 is provided with either one or two doors. Doors are of the vertical sliding type.

The doors can be equipped with motors for automatic opening and closing. The doors have efficient anti-crushing protection.



Machines with double doors are fitted with an interlocking system that allows only one door to be open at a time. This means that the door on the clean side must be closed and latched by pressing the “DOOR” button before the door on the soiled side can be opened.

On pressing the START button, the door is locked and a yellow lamp flashes (process ON) for about 10 seconds. If the START button is pressed again during this “alert” period the door on the soiled side will be unlocked and it can then be opened by hand or automatically.

The doors can be locked or unlocked individually by entering the test program (access code required).

Manually controlled door

On closing the door by hand and pressing the START button, the door will lock automatically, the yellow lamp will flash and the program starts.

When the program is completed, a green lamp will light on both sides (if fitted with two doors) and the door on the clean side will unlock. The green lamp will go out when the door is opened by hand. If fitted with two doors, the door on the clean side must be closed, and locked with the DOOR button before the door on the soiled side can be opened.

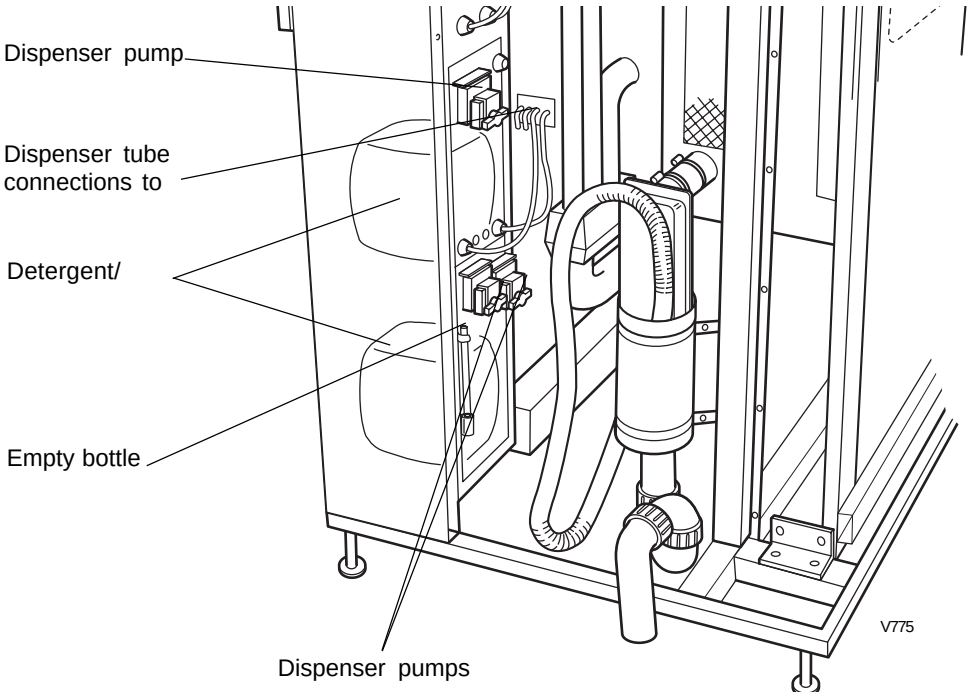
Automatically controlled door

On pressing the START button, the door will close and lock automatically, the yellow lamp will flash and the program starts.

When the program is completed, a green lamp will light on both sides (if fitted with two doors) and the door on the clean side will automatically open. The green lamp will go out on both sides when the door is fully open. If fitted with two doors, the door on the clean side must be closed with the DOOR button before the door on the soiled side opens automatically.

Dispenser system

In its standard version the machine has two different dispenser systems. One



system for alkaline detergent and one system for rinse-aid or acidic detergent. The size of the dispenser dose can be individually set for each program and each separate part of the program.

The machine cannot be started if the detergent bottle is empty. The message "FILL DETERGENT" will be displayed when the detergent bottle becomes empty.

A third dispenser system can be installed if required, eg, for chemical disinfection of heat-sensitive dishware.

Drying

If the machine is not provided with drying, it is recommended that the dishware is dried in a separate dryer cabinet.

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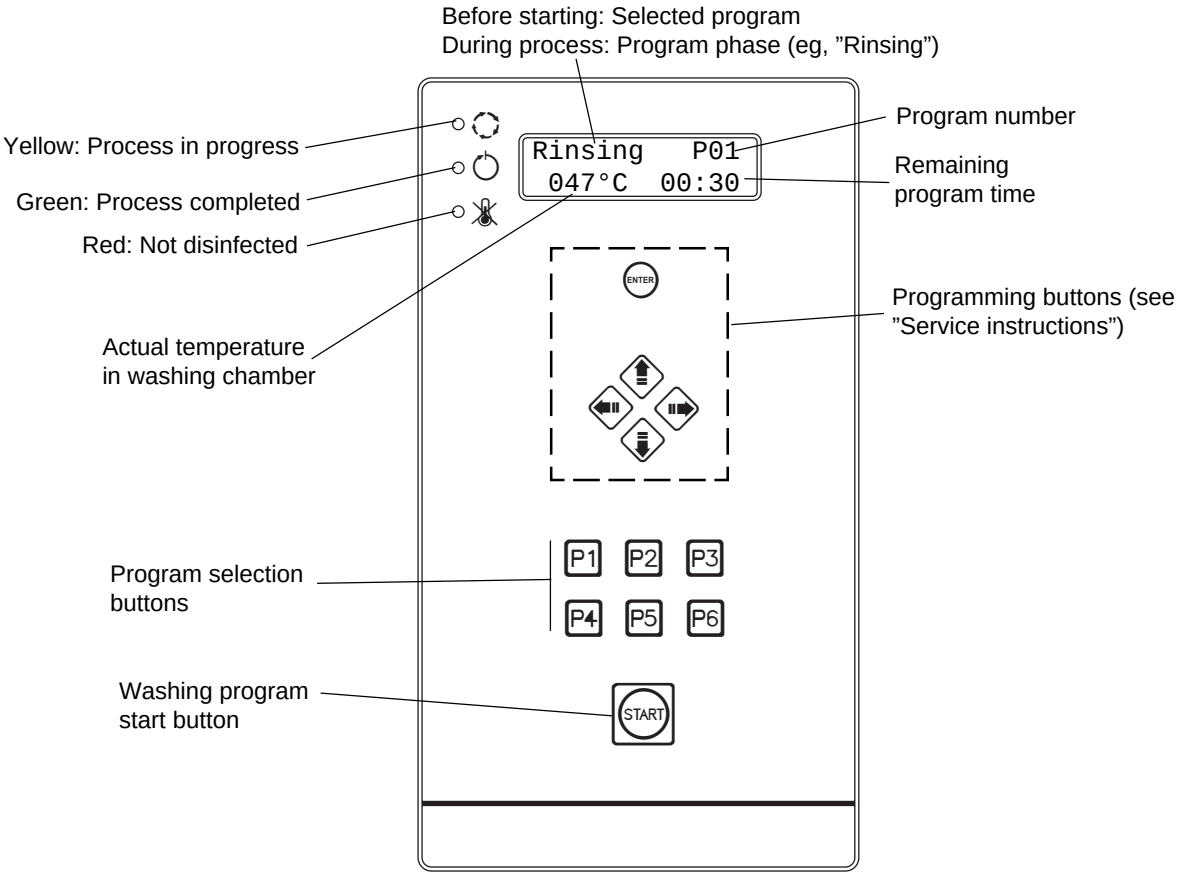
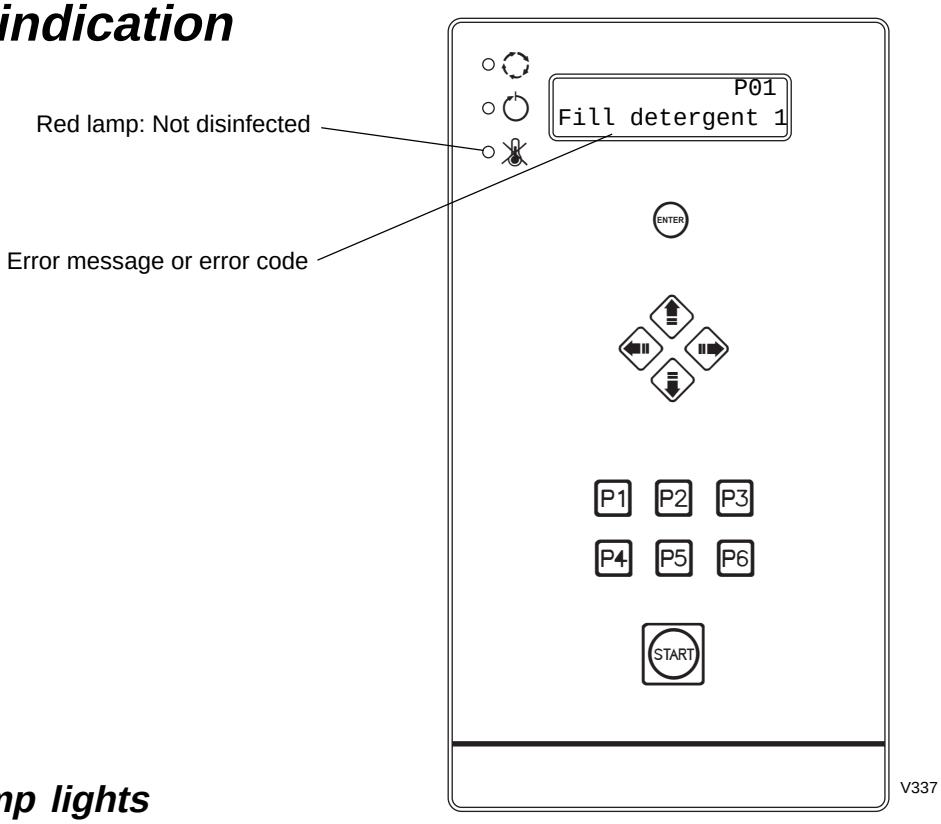
Operation



- Place the dishware in the trolley and roll it into the machine. How to arrange the dishware on the trolley is demonstrated in the goods arrangement chart.
- Ensure that the spray arms can rotate freely without touching the dishware. Close the door.
- Choose a program using the program selector buttons P1 - P6. The upper line of the display will then show the name and number of the program chosen. If no program is available under the program button that was chosen, the message ”NOT PROGRAMMED” will be displayed.
- Press the START button. The yellow lamp will light throughout the program sequence, and the current phase of the program, eg, ”Rinsing”, the actual temperature and the remaining program time will be displayed.
- On completion of the program, the green lamp will light and the door will be unlocked (door on the cleaned side if fitted with two doors).
- Empty the machine (and close the door on the cleaned side if fitted with two doors).
- If the same program is to be repeated it is not necessary to press a program selector button, just press the START button.
- The yellow lamp will flash for 10 seconds when the START buttom is pressed. During this period the program can be interrupted by pressing START once more.

Note.
The display window goes dark after 30 minutes and i automatically activated again on starting or when choosing a program.

Error indication



Red lamp lights

If the red lamp lights at , this is an indication that disinfection is aborted because the temperature is too low. Contact maintenance personnel.

Error messages

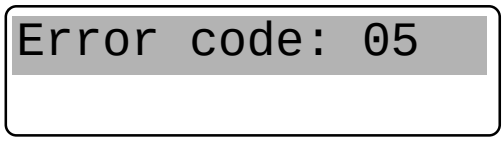
Error messages are displayed in clear text. The machine cannot be started until

the error is rectified. The following error messages can occur:

CHOOSE PROGRAM	START button has been pressed before choosing a program.
NOT PROGRAMMED	No program available for the program button P1 - P6 chosen.
CLOSE THE DOOR	START button pressed while door is open.
FILL DETERGENT 1	Detergent bottle 1 is empty and the START button has been pressed.
FILL DETERGENT 2	Detergent bottle 2 is empty and the START button has been pressed.
FILL DETERGENT 3	Detergent bottle 3 is empty and the START button has been pressed.

Note.
When the error message "Fill detergent" appers, there is always sufficient detergent left for one program.

Error codes (F-Codes)



The error codes indicate a serious malfunction in the washing sequence. Such errors must be attended to by authorized personnel.

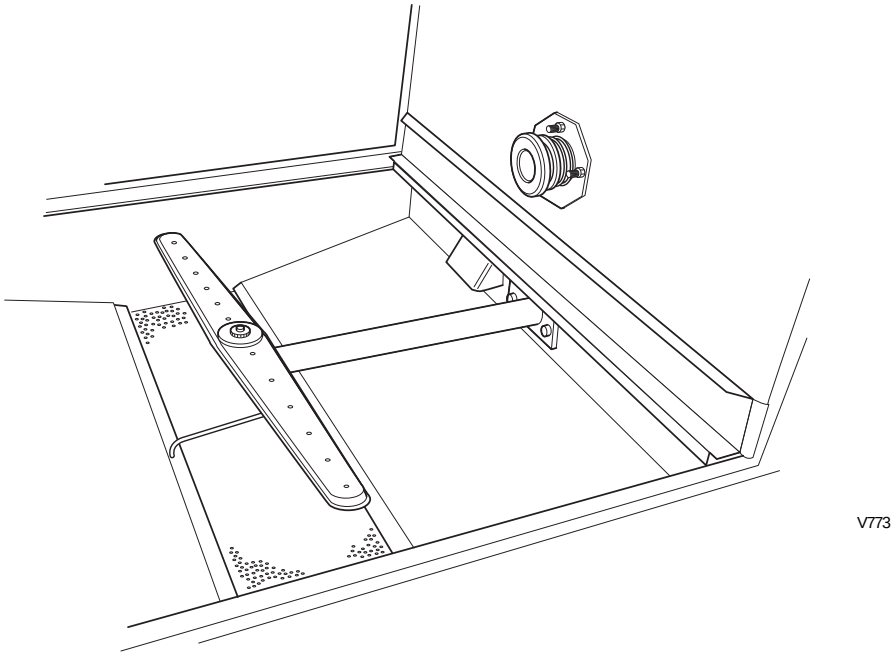
The following error codes can appear:

Code	Fault	Comments
1	Filling with water too slow	Water level sensor not activated within 10 minutes from commencement of filling.
2	Heating of water too slow	Water not heated 10°C from initial temperature within 8 minutes from commencement of heating.
3	Draining not working.	Water level sensor still activated at end of programmed draining period.
4	Drying air temperature too low.	Air temperature below 62°C after 15 minutes drying.
5	Faulty temperature sensor.	Displayed temperature below 0°C or above 110 °C.
7	Motor circuit breaker triggered.	Motor circuit breaker for the circulation pump is triggered.
8	Door malfunction, soiled side.	Sensor “Door closed” in lock not activated.
9	Door malfunction, clean side.	Sensor “Door closed” in lock not activated.
10	Error when filling economy tank.	Level sensor in tank not actuated within two minutes of starting to fill the economy tank.
11	Error when emptying economy tank	Level sensor in tank still actuated when emptying time has expired.
12	Water leakage in drying section.	Level sensor in drying section activated while circulation pump is running.

Acknowledgement of error code

After rectifying an error, press the START button for at least 5 seconds to reset the code.

Maintenance



Daily

- Check that no object has fallen to the bottom of the washing chamber and is left lying there.
- Ensure that the spray arms can rotate freely. Ensure that the holes in the spray arms are not clogged.

  Clean the spray arms as required by unscrewing the centre nut, lift off the arm and flush clean. Ensure that the spray arm rotates freely after refitting.
- Remove and clean the coarse filter in the bottom of the flushing chamber.
- Check that there is detergent/rinse aid in the containers.
- Ensure that the dishware rack docks properly against the water connections.

If necessary

The washing chamber

The washing chamber should be kept free of limescale deposits. Remove remaining deposits by spraying on a normal acid-based detergent. Then run a program to cleanse the washing chamber (if the correct dosage of descaling compound is used, this should not normally be necessary).

The exterior

The front and side walls can be cleaned and disinfected with an alcohol-based detergent, surgical spirit, or normal detergent. The control panel can be cleaned in the same way.

Remove marks with ordinary stain-remover for stainless steel.

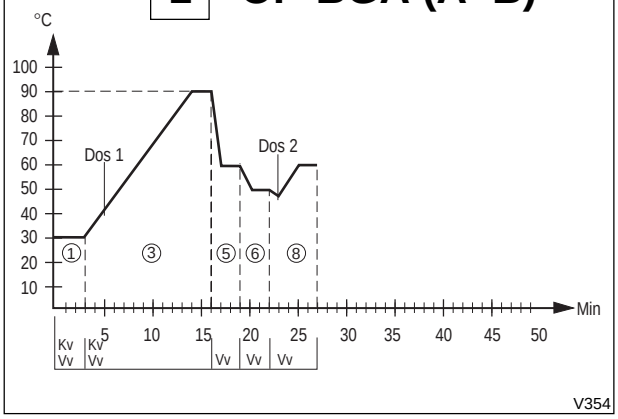
If the disinfector is used without automatic descaling, the steam generator must be checked regularly for limescale deposits.

Standard programs

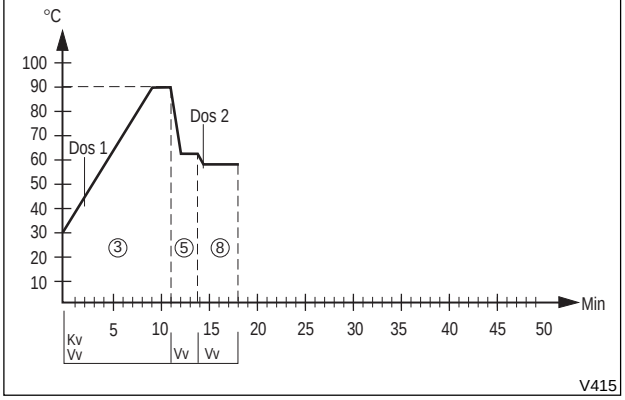
The following pages show the programs that are included in the machine on delivery. The programs will vary depending on the initial range of use intended and the equipment fitted.

Machine for hospitals, without drying function

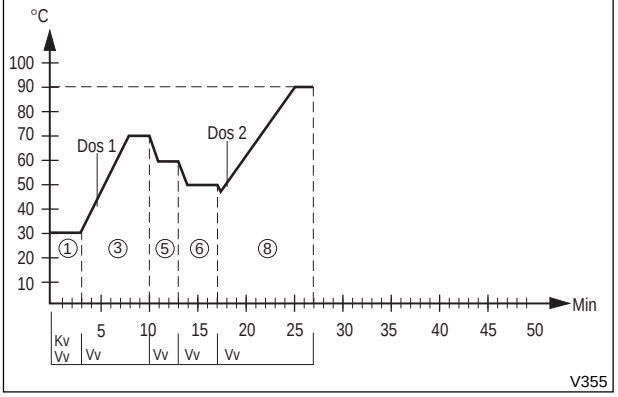
1 OP-BGA (A+B)



2 AN-BGA (A+B)



3 OP-BGA (A)



4, 5 and 6 Not programmed

Program phases

①	Pre rinse 1	⑥	After rinse 2
②	Pre rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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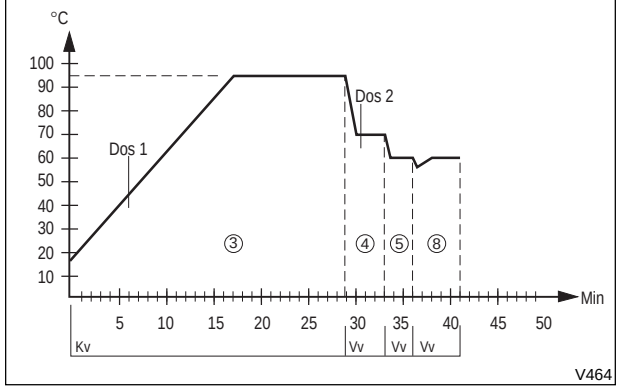
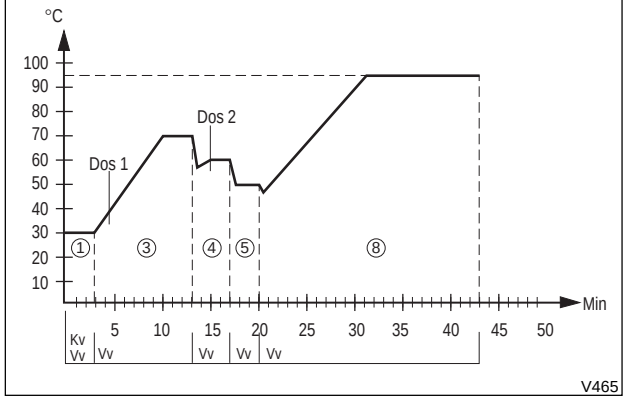
Machine for hospitals, with drying function

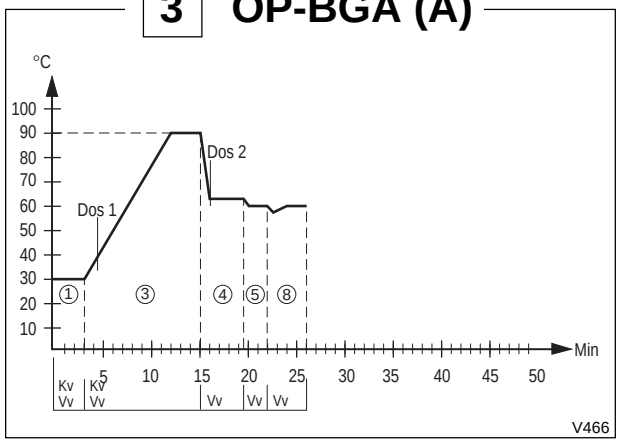
1 OP-BGA (A+B)



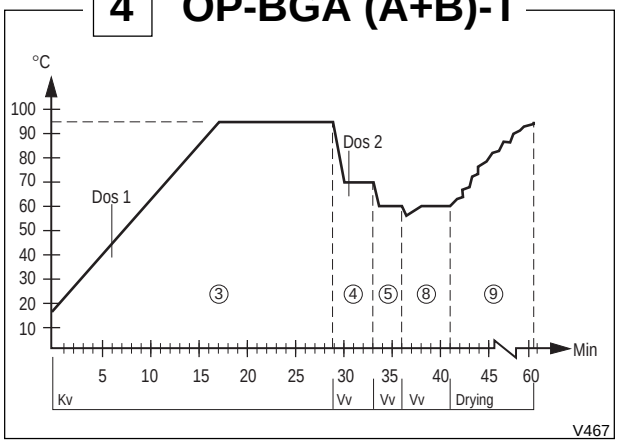
2 AN-BGA (A+B)



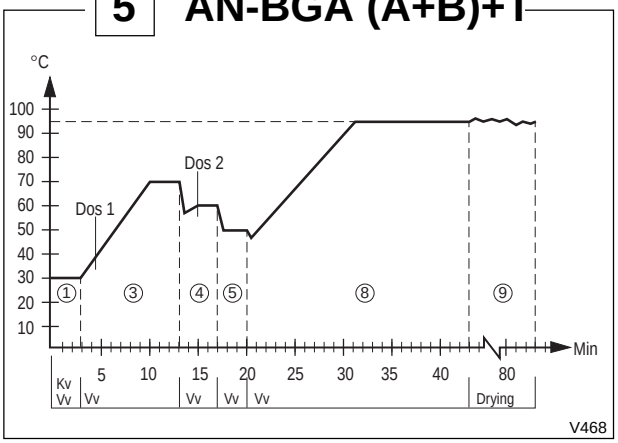
3 OP-BGA (A)



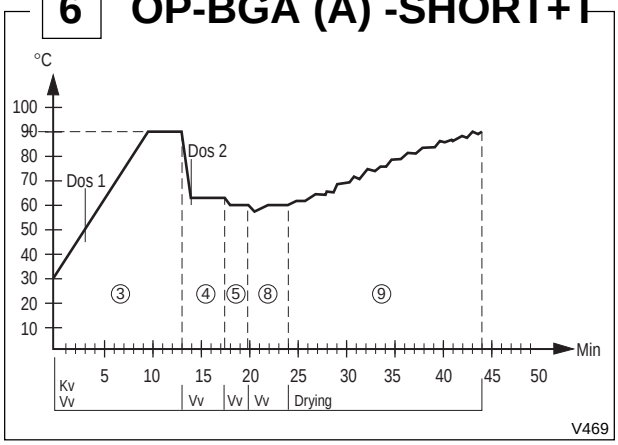
4 OP-BGA (A+B)-T



5 AN-BGA (A+B)+T



6 OP-BGA (A) -SHORT+T



Program phases

①	Pre rinse 1	⑥	After rinse 2
②	Pre rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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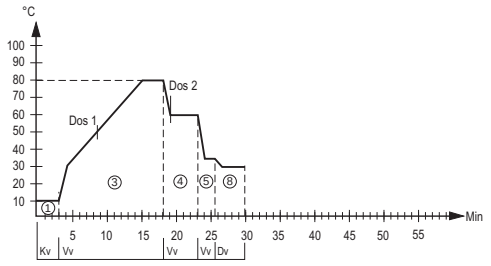
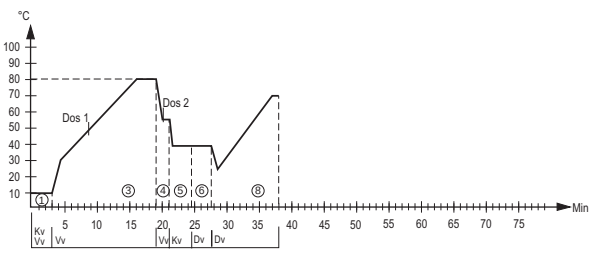
Machine for laboratories, without drying function

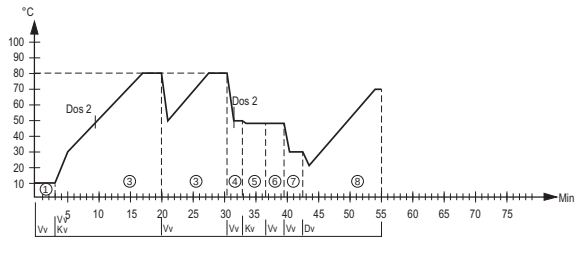
1 SHORT LAB



2 LONG LAB



3 TEST TUBES



4 , 5 and 6 Not programmed

Program phases

①	Pre rinse 1	⑥	After rinse 2
②	Pre rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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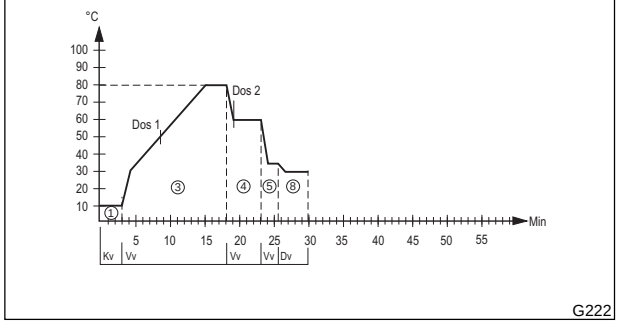
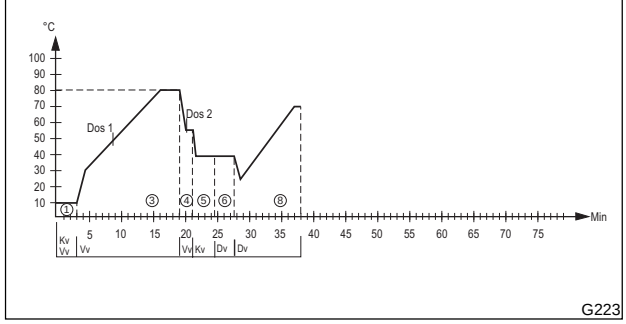
Machine for laboratories, with drying function

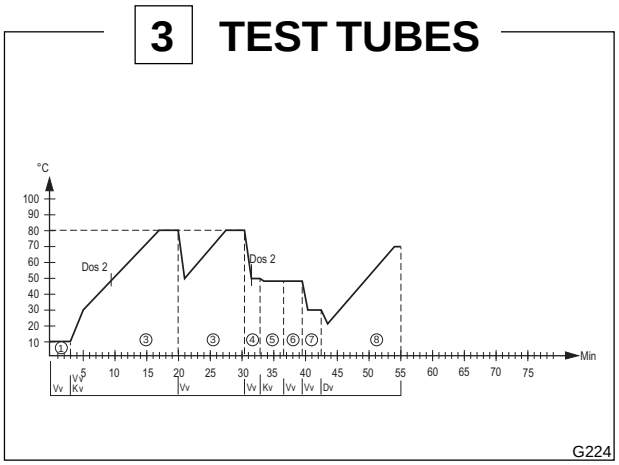
1 SHORT LAB



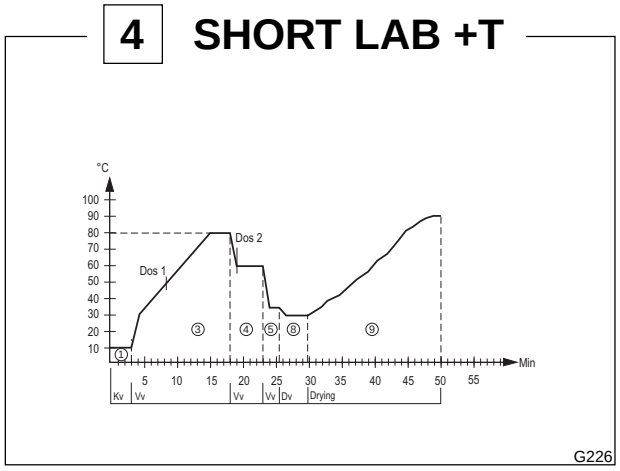
2 LONG LAB



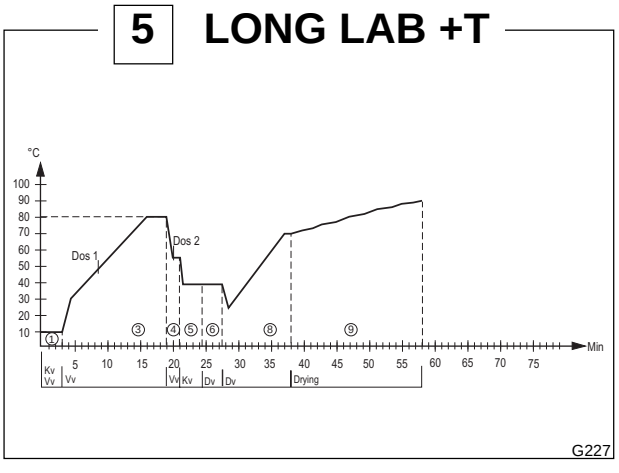
3 TEST TUBES



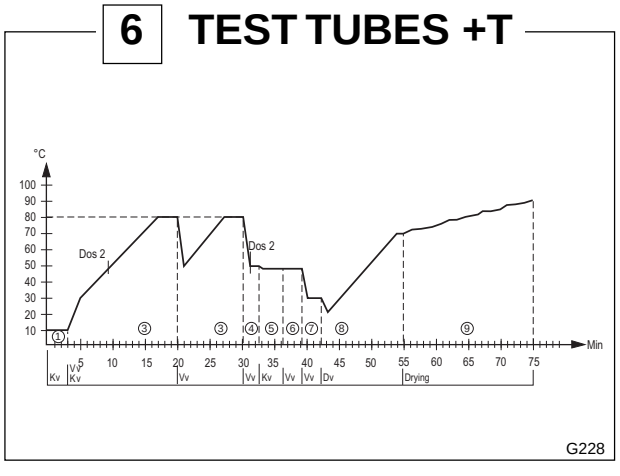
4 SHORT LAB +T



5 LONG LAB +T



6 TEST TUBES +T



Program phases

①	Pre rinse 1	⑥	After rinse 2
②	Pre rinse 2	⑦	After rinse 3
③	Washing	⑧	Final rinse
④	Neutralizing	⑨	Drying
⑤	After rinse 1		

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GETINGE DISINFECTION

Standard program

The indicated cycle time is depending on both water pressure and temperature.

Sektion 1 - Hospital programs according to SPRI

Hospital validated programs due to SPRI-guidelines with disinfection at 90°C/1 min

(SPRI = Swedish Institute for Hospital Planning and Rationalizing)

Program	Cykle time	Name	Purpose and performance
P01	27'	OP	Instruments
P02	18'	OP-SHORT	Utensils and less soiled instruments
P03	27'	AN	Anaesthetic tubing
P04	18'	AN-EXCL-DOS	Anaesthetic tubingwithout detergent supply
P05	47'	OP-T	P01 + 20 min drying
P06	38'	OP-SHORT-T	P02 + 20 min drying
P07	67'	AN-T	P03 + 40 min drying
P08	58'	AN-EXCL-DOS-T	P04 + 40 min drying
P09	20'	T-20 MIN	20 min drying
P10-P19			for individual programming

Sektion 2 - Hospital programs according to BGA

Hospital validated programs due to BGA-guidelines with disinfection BGA (A) at 90°C/1 min and BGA (A+B) at 93°C/10min

(BGA = German Federal Institute of Health)

Program	Cykle time	Name	Purpose and performance
P20	26'	OP-BGA (A)	Instruments
P21	24'	OP-BGA (A) SHORT	Utensils and less soiled instruments
P22	30'	AN-BGA (A)	Anaesthetic tubing
P23	41'	OP-BGA (A+B)	Instruments
P24	43'	AN-BGA (A+B)	Anaesthetic tubing
P25	27'	OS-CHEM	Heat sensitive goods, e.g. OP-shoes at 60°C
P26	46'	OP-BGA (A) -T	P21 + 20 min drying
P27	44'	OP-BGA (A) SHORT-T	P21 + 20 min drying
P28	70'	AN-BGA (A) -T	P22 + 40 min drying
P29	55'	OP-BGA (A+B) -T	P27 + 20 min drying
P30	83'	AN-BGA (A+B) -T	P24 + 40 min drying
P31	47'	OS-CHEM-T	P25 + 20 min drying
P32	20'	T-20 MIN	20 min drying
P33	38'	ENZYM (A+B)	
P34	78'	ENZYM (A+B) T	
P35-P39		ledigt	for individual programming

Sektion 3 - Laboratory glassware programs

Program	Cykle time	Name	Purpose and performance
P40	30'	SHORT LAB	
P41	38'	LONG LAB	
P42	55'	TEST TUBES	
P43	57'	PIPETTES	
P44	50'	SHORT LAB T	
P45	58'	LONG LAB T	
P46	75'	TEST TUBES T	
P47	68'	LAB4-T	
P48-P49		ledigt	for individual programming
P50-P51		blockerat	For Decomat Mini 1345
P52-P60		ledigt	for individual programming

Program printout

Example of a printout for a program is illustrated below. The program P01 OP, which is programmed on program selection key P1, is used in the examples.

Program printout

```
**************************

Process tid:        00:29
Process slut:       15:19

_____________________________

Tömning:
_____________________________
         15:18     060*C
         15:17     060*C
         15:16     061*C
Slutskölj:
_____________________________

Tömning:
_____________________________
         15:14     061*C
         15:13     061*C
Efterskölj:
_____________________________

Tömning:
_____________________________
         15:10     067*C
         15:09     067*C
Efterskölj:
_____________________________

Tömning:
_____________________________
         15:06     090*C
         15:05     090*C
         14:55     039*C
Disknina:
_____________________________

Tömning:
_____________________________
         14:52     040*C
         14:51     042*C
Förskölj:

=============================

Operator Sign:_____________


Maskin ID:              01
Dagl.Process:          001
Tid:                 14:51
Datum:               08-23

P1   OP
**************************
```

9908

This product is manufactured by:
GETINGE DISINFECTION AB, Ljungadalsgatan 11, Box 1505, 351 15 Växjö, Sweden

GETINGE
DISINFECTION